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Ser. No.: 10/518,670

Amdt. dated July 1, 2008

Reply to Office Action of April 1, 2008

JUL 01 2008

PATENT

PU020289

CUSTOMER NO.: 24498

16. **(Previously Presented)** The method of claim 15, wherein selecting one of said first and second sets of M parity encoded output digital audio data streams as the output of said broadcast router further comprises:

determining a first sum by adding said at least one bit added to said first set of M parity encoded output digital audio data streams;

determining a second sum by adding said at least one bit added to said second set of M parity encoded output digital audio data streams; and

selecting, one of said first and second sets of M parity encoded output digital audio data streams as the output of said broadcast router based upon the presence of parity errors in said first set of M parity encoded output digital audio data streams, the presence of parity errors in said second set of M parity encoded output digital audio data streams and a comparison of said first sum to said second sum.

17. **(Previously Presented)** The apparatus of claim 1, wherein said output card is further configured to continue providing as the output therefrom the unselected one of said first and second sets of M parity encoded output digital audio streams, even if no further parity error is detected in said selected one of said first and second sets, unless a parity error is detected in said unselected one of said first and second sets.

18. **(Currently Amended)** A fault-tolerant router, comprising:

a first router matrix card, said first router matrix card receiving N parity encoded input digital data streams and generating, from said N parity encoded input digital data streams, a first set of M parity encoded output digital streams, wherein M and N are integers and M is different from N;

a second router matrix card, said second router matrix card receiving said N parity encoded input digital data streams and generating, from said N parity encoded input digital data streams, a second set of M parity encoded digital streams;

an output card coupled to said first router matrix card and said second router matrix card, said output card receiving said first set of M parity encoded output digital streams from said first router matrix card and said second set of said M parity encoded output digital streams from said second router matrix card, providing, as an output therefrom, a selected one of said first and second sets of M parity encoded output digital streams, and switching from said selected one of said first and second sets of M parity encoded output digital data streams to an unselected one of said